

**SECTION 01500
CONSTRUCTION REQUIREMENTS, SERVICES, AND
TEMPORARY CONTROLS**

PART 1 GENERAL

1.1 REQUIREMENTS INCLUDED

- A. Sanitary facilities.
- B. Signage.
- C. Barriers.
- D. Historical protection.
- E. Noise protection.
- F. Protection of installed work.
- G. Dust control.
- H. Erosion and sediment control.
- I. Removal of temporary construction measures.

1.2 SANITARY FACILITIES

Provide and maintain required facilities and enclosures. Existing OWNER's and ENGINEER's facilities shall be off-limits to CONTRACTOR's employees.

1.3 SIGNAGE

- A. CONTRACTOR shall provide a 4-foot by 8-foot sign at the landfill entrance gate including the following information in large Font:
 - 1. NO CONSTRUCTION TRAFFIC ALLOWED
 - 2. Construction Entrance is located _____ feet south (with directional arrow)
 - 3. OWNER shall approve the sign and its location before installation
- B. CONTRACTOR shall provide a 4-foot by 8-foot sign at the construction entrance gate including the following information in large Font:
 - 1. CONSTRUCTION ENTRANCE ONLY

2. CONTRACTOR name (“_____”)
 3. Project title (“Leachate Pump Station and Force Main”)
 4. Facility owner (“County of Loudoun”)
 5. Project Engineer (“SWS”)
 6. “Delivery/Construction Access”
 7. OWNER shall approve the sign and its location before installation
- C. CONTRACTOR shall provide and install at least three (3) construction access directional-arrow signs, each at least 3 feet high and 5 feet long, indicating the construction access route from the construction entrance gate to the construction site as shown on the Drawings.
- D. CONTRACTOR shall provide at least three (3) construction delivery directional-arrow signs, each at least 3 feet high and 5 feet long, indicating the construction delivery route from the construction entrance gate to the CONTRACTOR staging area shown on the Drawings.
- E. CONTRACTOR shall submit a mock-up of all signs prior to ordering and installing the signs.

1.5 BARRIERS

- A. Provide as required to prevent public entry to construction areas and to protect existing facilities and adjacent properties from damage from construction operations.
- B. Provide barriers around all existing groundwater and gas wells within or near the Limits of Disturbance to prevent damage during construction.
- C. Restore all areas disturbed by temporary barriers to original condition unless otherwise noted.
- D. CONTRACTOR shall provide a pipe gate and a combination lock for the construction entrance gate to allow for CONTRACTOR access to the site. CONTRACTOR shall provide the lock combination information, in writing, to the OWNER and ENGINEER. OWNER shall approve the location of the pipe gate prior to installation.

1.6 HISTORICAL PROTECTION

- A. If, during the course of construction, evidence of deposits of historical or archaeological interests are found, cease work affecting find and notify the OWNER. Do not disturb deposits until written notice from OWNER is given to proceed. Lost time or changes in construction to avoid the find shall be compensated for based upon change order procedures described in the GENERAL CONDITIONS.

- B. Existing cemetery shall not be disturbed under any circumstances.

1.7 NOISE PROTECTION

- A. Minimize noise by fitting equipment with appropriate mufflers or sound enclosures.
- B. Make the maximum use of "low-noise-emission products" as certified by EPA. Blasting or use of explosives is not permitted without written permission of the OWNER.

1.8 PROTECTION OF FINISHED WORK

Finished work is defined as work that has undergone testing, has been as-built surveyed, and has received approval by the ENGINEER.

- A. Provide temporary protection for finished work and installed products and materials. Provide protection from the elements and control traffic in immediate area to minimize damage.
- B. Non-construction related traffic and storage of materials on all areas of the landfill where a layer has been installed is prohibited.
- C. Restore all damaged finished work in accordance with the complete requirements of these specifications.
- D. CONTRACTOR is responsible for protecting all existing groundwater-monitoring wells, gas monitoring probes, landfill-gas extraction wells, fence and gates and shall bear all costs associated with replacement or repair of any damaged item.
- E. Wells and probes in the vicinity of the Work shall be protected with safety fence to be maintained by the CONTRACTOR.

1.9 DUST CONTROL

- A. Methods for controlling dust are to conform to Virginia Department of Transportation Road and Bridge Specifications, Section 513.
- B. Keep dust down at all times, including non-working hours, weekends, and holidays. No dry power brooming is permitted.
- C. **Failure to control dust shall result in work stoppage.**

1.10 EROSION AND SEDIMENT CONTROL

- A. Employ, utilize, construct, and maintain environmental protection methods in full observance of all federal, state, and local regulations.
- B. Refer to the following standards and include as part of these Specifications:
 - 1. Virginia Erosion and Sediment Control Handbook, latest edition
 - 2. CONTRACTOR to provide a certified land disturber for this project in accordance with the Virginia Erosion Sediment Control Law (Title 10.2, Chapter 5, Article 4 of the Code of Virginia)
 - 3. Virginia Department of Transportation Road and Bridge Specifications, Section 107.14, "Environmental Considerations"
- C. Plan and execute construction by methods to control surface drainage from cuts and fills, from borrow, stockpile, and waste disposal areas to prevent erosion and sedimentation.
- D. Provide temporary measures such as berms, dikes, and drains, to prevent water flow and protect terrain in accordance with control measures shown on the Drawings and the following:
 - 1. Protect areas adjacent to the project limits from sediment deposition by installing appropriate perimeter controls.
 - 2. Sediment and erosion control measures shall be constructed as the first step in site preparation operations and shall be made functional before any upslope disturbance takes place.
 - 3. Restore all disturbed areas to original condition unless otherwise noted.
 - 4. Protect all side slopes and back slopes immediately upon completion of final grading.
 - 5. Plan and execute earthwork in a manner to minimize duration of exposure of unprotected soils.
- E. Runoff Protection: Utilize methods in compliance with Virginia Erosion and Sediment Control Handbook (VESCH) Standards to effectively prevent erosion and control of sedimentation.
- F. Periodically inspect earthwork to detect evidence of erosion and sedimentation; promptly apply corrective measures at no additional cost to OWNER.
- G. CONTRACTOR shall remove all temporary erosion control items and restore any disturbed areas upon completion of the work and after areas have been stabilized to prevent soil erosion.

- H. Provide and maintain adequate erosion and sediment control measures according to the Drawings and the provisions of the Loudoun County Erosion and Sediment Control Ordinance.
- I. Burn-off of ground cover is not permitted.
- J. Protection of Erodible Soils: Provide temporary protection for erodible soils. Employ methods such as mechanical retardation, sediment basins, or vegetation and mulch. All earthwork brought to final grade shall be immediately finished as indicated or specified. Immediately protect side slopes and backslopes upon completion of rough grading. Plan and conduct all earthwork to minimize the duration of exposure of unprotected soils.
- K. The CONTRACTOR shall protect erodible surfaces until final surfaces are in place and vegetative cover is adequate to prevent erosion.

1.11 REMOVAL OF TEMPORARY CONSTRUCTION

- A. Remove temporary materials, equipment, services, and construction prior to final completion inspection.
- B. Clean and repair damage caused by installation or use of temporary facilities. Restore existing facilities used during construction to specified or to original condition.
- C. Remove erosion and sediment controls at the direction of the ENGINEER.

1.12 ACCESS ROADS

The CONTRACTOR shall maintain, as necessary, all site access and construction roads for the duration of the project. Condition of access roads shall be inspected daily and must meet approval of the ENGINEER and the OWNER. Restore all access and construction roads prior to final completion of the project.

PART 2 - PRODUCTS - NOT USED

PART 3 - EXECUTION - NOT USED

END OF SECTION